

## **II. CLAIM AMENDMENTS**

1.-16. (Cancelled)

17. (Previously Presented) A method for recognizing a selection from a set of at least two alternatives, the method comprising:

determining the positions of the alternatives that surround a user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user;

allowing the user to do a first movement of a member of the body to a position corresponding to an alternative the user desires;

recognizing a second movement of a member of the body done by the user in the position corresponding to the alternative the user desires;

in response to the second movement, recognizing the selection the user desires as completed; and

providing the recognized selection as an output,

wherein said positions are sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors, and

wherein said first movement comprises moving the member of the body to a certain sector on said arcuate area between two of the separating areas.

18. (Previously Presented) A method according to claim 17, further comprising:

indicating to the user at least once the positions corresponding to the alternatives as one of the following:

showing virtual images in each position, showing an arcuate area with a plurality of sectors at the level of the user's waist, said sectors corresponding said positions, and informing the alternative corresponding to a position audiophonically.

19. (Previously Presented) A method according to claim 17, further comprising:

demonstrating to the user the alternative indicated at any given time.

20. (Previously Presented) A method according to claim 17, further comprising:

recognizing the second movement contactlessly.

21. (Previously Presented) A method according to claim 17, wherein the first movement is the movement of the user's hand.

22. (Previously Presented) A method according to claim 17, further comprising:

carrying out a certain first function in response to the output.

23. (Previously Presented) A method according to claim 17, further comprising:

allowing the user to carry out a certain second activity with a specific third movement of the member of the body.

24. (Previously Presented) An electronic device for recognizing a selection from a set of at least two alternatives, the device comprising:

means for determining positions of the alternatives that surround the user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user;

means for allowing the user to do a first movement of a member of the body to a position corresponding to an alternative the user desires;

means for recognizing a second movement of a member of the body done by the user in the position;

means for recognizing the carrying out of the selection the user desires in response to the second movement; and

an output for outputting the recognized selection,

wherein said means for determining are arranged to determine said positions as sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors, and

wherein the position corresponding to an alternative the user desires is located on the arcuate area between two of the separating areas.

25. (Previously Presented) A device according to claim 24, wherein:

the device further comprises means for indicating to the user the positions corresponding to the alternatives as one of the following:

showing a virtual image in each position, showing an arcuate area with a plurality of sectors at the level of the user's waist, said sectors corresponding said positions, and informing the alternative corresponding to a position audiophonically.

26. (Previously Presented) A device according to claim 24, wherein:

the device further comprises presentation means for indicating the alternative indicated at any given time to the user.

27. (Previously Presented) A device according to claim 24, wherein:

the means for recognizing the second movement carried out by the user in the position are adapted to recognize the second movement contactlessly.

28. (Previously Presented) A device according to claim 24, wherein:

the first movement is the movement of the user's hand.

29. (Previously Presented) A device according to claim 24, wherein:

the device further comprises means for carrying out a certain first function in response to the second movement.

30. (Previously Presented) A device according to claim 24, wherein:

the device further comprises means for carrying out a specific second function in response to the third movement.

31. (Previously Presented) A device according to claim 24, wherein:

the means for recognising the second movement carried out by the user in the position are adapted to be attached to the user.

32. (Previously Presented) A device according to claim 24, wherein:

the device comprises at least one of the following: a mobile station, a computer, a television apparatus, a data network browsing device, an electronic book, and an at least partly electronically controlled vehicle.

33. (Cancelled)

34. (Previously Presented) A method according to claim 17, wherein said arcuate area is a selection disc.

35. (Previously Presented) A method according to claim 21, wherein said first movement is a substantially horizontal arcuate movement of the hand to a certain sector of the arcuate area situated substantially in a horizontal plane.

36. (Previously Presented) A method according to claim 35, wherein said second movement is a substantially vertical movement of a hand at said certain sector.

37. (Previously Presented) A method according to claim 35, wherein said second movement is placing a hand into a certain position at said certain sector.

38. (Previously Presented) A method according to claim 17, further comprising:  
  
determining the positions corresponding to each alternative in the space surrounding a user also on the basis of their distance with respect to the user.

39. (Cancelled)

40. (Previously Presented) A device according to claim 24, wherein said arcuate area is a selection disc.

41. (Previously Presented) A device according to claim 28, wherein said first movement is a substantially horizontal arcuate movement of the hand to a certain sector of a circular area situated substantially in a horizontal plane.

42. (Previously Presented) A device according to claim 41, wherein said second movement is a substantially vertical movement of a hand at said certain sector.

43. (Previously Presented) A device according to claim 41, wherein said second movement is placing a hand into a certain position at said certain sector.

44. (Previously Presented) A device according to claim 24, wherein said means for determining are arranged to determine said positions also on the basis of their distance with respect to the user.

45. (Previously Presented) A system for recognizing user's selection, the system comprising:

a central unit,

a three dimensional display device,

the central unit comprising communication means for communicating positions corresponding to selection alternatives to the three dimensional display device,

the three dimensional display device being arranged to display to the user the positions of selection alternatives that surround the user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user, said positions being sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors ,

means for recognizing a movement of a member of a body of the user to one of the positions on said arcuate area between two of the separating areas, and communication means for communicating a recognized movement from the means for recognizing to the central unit,

wherein the central unit being arranged to process the selection of an alternative on the basis of the recognized movement.

46. (Previously Presented) A system according to claim 45,

wherein the central unit comprises at least one of the following:

a mobile station, a computer, a television apparatus, a data network browser device, an electronic book, and at least partly electronically controlled vehicle.

47. (Previously Presented) A system according to claim 45, wherein the means for recognizing is a camera.

48. (Previously Presented) A system according to claim 45, wherein the means for recognizing is a shape tape.

49. (Previously Presented) A system according to claim 45, wherein the arcuate area is a selection disk.

50. (Previously Presented) A system according to claim 45, wherein the three dimensional display device and the means for recognizing are comprised in the same unit.

51. (Previously Presented) A system according to claim 45, wherein the three dimensional display device is virtual glasses.

52. (Currently Amended) A user interface for an electronic device for recognizing a selection from a set of at least two alternatives, the user interface comprising:

means for determining positions of the alternatives that surround a user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user;

means for allowing the user to do a first movement of a member of the body to a position corresponding to an alternative the user desires;

means for recognizing a second movement of a member of the body done by the user in the position;

means for recognizing the carrying out of the selection the user desires in response to the second movement; and

an output for outputting the recognized selection,

wherein said means for determining are arranged to determine said positions as sectors on an arcuate area surrounding the user and separated by separation areas arranged to reduce selection errors, and

wherein the position corresponding to an alternative the user desires is one of the sectors on the arcuate area.

53. (Previously Presented) A method according to claim 17, wherein allowing the user to do said first movement of a member of the body allows the user to move a first

member of the body and the recognizing of said second movement recognizes the movement of a second member of the body, wherein the first and second members of the body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.

54. (Previously Presented) A device according to claim 24, wherein said means for the allowing the user to do said first movement of a member of the body allows the user to move a first member of the body and the means for recognizing of said second

movement recognizes the movement of a second member of the body, wherein the first and second members of the body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.

55. (Previously Presented) A system according to claim 45, further comprising means for allowing the user to do said movement of a member of the body and allowing the user to move a first member of the body and wherein the means for recognizing recognizes the movement of a second member of the body, wherein the first and second members of the body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.



56. (Previously Presented) A user interface according to claim 52, wherein said means for allowing the user to so said first movement of a member of the body allows the user to move a first member of the body and the means for recognizing of said second member recognizes the movement of a second member of the body, wherein the first and second members of the body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.